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# Tutorial.sql

Evolution of SW  
Study Skills Strategies for Class  
Import fruit2Tables.sql PMA  
Submit Tutorial.sql

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## Evolution of Software Development

- 1970s Coding
- 1980s PC & Client-Server Paradigm
- 1990s GUI, PC Client-Server Dominated
- 21<sup>st</sup> Intelligent Devices Client-Multi-Tier Servers

- Learn from being standalone Coder to
- Full Stack Developer or Partial Full Stack
- Lots of Machine to Machine Communication  
Going On

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## CiM Upgrade

1. Console window interface OS
2. Multiple Browser Windows Open
3. My SuSE Install Notes
4. Yast Tool
5. Firewall
6. Dreamweaver IDE Client/Server Web Pages
7. PHPMyAdmin Database Interface
8. Web Browser for Testing

Was this Sufficient?

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## 8 Things at Once Not Sufficient

- Two Bugs I encountered
  - First Bug New Web Server throwing Exception  
router was blocking IP/Pages
  - Ports Open on Firewall, special router rule  
for External SSL
- Were Occurring at the Router Level

- Web Master to do Local Testing
- Network Administrator Involved

- Days of Standalone Coder ended Years Ago<sub>4</sub>

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## Study Skills

1. Watch Videos – Submit Later off PDF Notes
  - Print out PDF Viewgraphs
  - Take Notes during Videos
  - When Video Ends, reproduce queries in PMA & Submit
2. Watch Videos – Stop/Start for Submit
  - During Query Listen Carefully, take Notes
  - Pause Video, Do It in PMA and Then Submit
3. Interactively following Videos
  - Complete Queries/PMA/Submit with Video

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## Web Browser Work Environment

- 21<sup>st</sup> Century Development
- Everything's on Canvas Follow Modules
  - Let the Web Guide, Don't Decipher Web
- Video Prerequisite
  - 1<sup>st</sup> Complete Browser Configuration
  - You can Open links each time or
- Configure Canvas Workspace

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## Canvas Workspace Configuration

Browser 5 Open Tabs

CIS 405NC > Modules Breadcrumbs Across the Top

2020 Fall SC

4 Frame System

Link Icon Can Right^Click External Web Page Content Open Tab or Only Frame

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## Both Assignments & Videos Have All Links

- Canvas Linked Pages
  - Right^Click Open in Tab (or Window)
  - Right^Click This Frame
- Open Pages When Needed
- Create Browser Workspace Environment

Assignment tutorial.sql

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## Setting up an SQL Browser IDE

- Right^Click submit Link New Tab  
CIM Login SBUsername, Student Number
- Right^Click phpMyAdmin New Tab
- Optional Open 2<sup>nd</sup> Module Assignment Page
  - Open DB Scripts
- Firefox Control Menu Settings → Home Tab  
Home Save Current Pages
- <https://cim.saddleback.edu/cimw105>      <https://cim.saddleback.edu/submit>
- <https://cim.saddleback.edu/premiere>      <https://cim.saddleback.edu/phpMyAdmin>  
<https://cim.saddleback.edu/canvas>      <https://cim.saddleback.edu/pma>

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## I'm Using FireFox for Class

Click Control Menu → Setting Options

Use Current Pages

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# tutorial.sql Assignment

Complete tutorial.sql using phpMyAdmin

Web Based Standard for MySQL Access  
All Web-Hosting Companies Provide phpMyAdmin  
Its Not for Active Production Systems  
The System for Testing – Development

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## tutorial Assignment Videos

- Video 1  
MySQL Pre-tutorial – PHPMyAdmin: testing Database
  - <http://cim.saddleback.edu/phpMyAdmin> Recent Version
  - We will be using phpMyAdmin5.x.x
  - Deprecated Closed Caption  
<http://cim.saddleback.edu/phpMyAdmin3.5>
  - <http://cim.saddleback.edu/~premiere> (Import in PHPMyAdmin)
    - Import fruit2Tables.sql to create two fruit tables
- Intro to PHPmyAdmin and tutorial.sql 1<sup>st</sup> 5 Queries
- Video 2: Intro to Submit and Submit tutorial.sql 1<sup>st</sup> 5 Queries
  - <http://cim.saddleback.edu/submit>
- Video 3: 2<sup>nd</sup> Five Queries for tutorial.sql

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# MySQL Pre tutorial

PHPMYAdmin  
 Class Site/Canvas or direct short-cut link  
<https://cim.saddleback.edu/pma>

Login to PHPMYAdmin – Password Student #  
 Select Your Database  
 Import fruit2Tables.sql – Creates 2 Fruit Tables

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## Accomplished Goal Fruit Tables

- 1) Login to phpMyAdmin <https://cim.saddleback.edu/pma>
- 2) Username: sbusername, password Student Number/ID (not mysite pswd)
- 3) Select your database DB0username
- 4) Click Import tab, Select file to import button, drop down premiere
- 5) Select premiere fruit2Tables.sql import file – will create these 2 tables

| fruitID | name   | price |
|---------|--------|-------|
| 1       | apple  | 2.50  |
| 2       | pear   | 3.00  |
| 3       | banana | 1.00  |
| 4       | grpe   | 0.75  |
| 8       | pluot  | 4.50  |
| 6       | plum   | 1.25  |

| fruitID | quantity |
|---------|----------|
| 1       | 100      |
| 3       | 500      |
| 2       | 100      |
| 1       | 250      |
| 2       | 200      |

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## New to PHPMYAdmin 5.x Added a Select File to Import Button

Server: CIM/PTD Student Testing Database Database: DB0jstudent0

Structure SQL Search Query Export Import Operations Privileges More

Importing into the database "DB0jstudent0"

File to import:

Upload a file **Select file to import**

Select from the web server upload directory premiere/:

Character set of the file: utf-8

Step 1: click Import Tab

New Step 2: click Select file to import

Step 3: drop down list box select file fruit2Tables.sql

Step 4: click Select Import Button at Bottom (scroll down)

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## After fruit2Tables.sql import

phpMyAdmin Server: localhost Database: DB0jstudent0

Structure SQL Search Query Export Import More

Recent Favorites

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0018 seconds.)

```
#<pre> # this file is using default engine using MyISAM drop table if exists fruit
```

[Edit inline] [Edit] [Create PHP code]

Note: #1051 Unknown table 'DB0jstudent0.fruit'

Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

```
select "create a fruit table with fruitID name and price"
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table

Options create a fruit table with fruitID name and price

Scroll Down to See All SQL Statements Executed

Console all Number of rows: 25 Filter rows: Search this table

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# MySQL 1st Tutorial

Goal Create First 5 Queries for tutorial.sql

#T1 show tables in active database  
 #T2, #T3 use PMA Navigator Display Contents  
 #T4 #T5 SQL Tab for Describe Query  
 table: fruit then table: inventory

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## Part 1: Tutorial Assignment Objectives

- ❶ Five Queries you need to Complete Comments  
 /\* #T1) show tables; #T2) select \* from fruit; (check PMA capture)  
 #T3) select \* from inventory;  
 #T4) describe fruit; #T5) describe inventory;  
 Add # comment before each Query \*/
- ❷ Click SQL Tab, Write Query to Display Tables
  - show tables;
- ❸ Use Navigator Display Table Contents
  - select \* from tableName;
- ❹ USE SQL Tab enter describe TableName Query
  - describe tableName;

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## #T1 Show Table Names Just Created

- I. Login to phpMyAdmin  
<https://cim.saddleback.edu/pma>  
 Canvas will always have PMA links
- II. Select Your Database
- III. Click SQL Tab
- IV. Type Script show tables;
- V. Add # Comment
- VI. Optional Save Queries Locally using Text Editor

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## #T2,3) Display Content fruit, inventory

| fruitID | name   | price |
|---------|--------|-------|
| 1       | apple  | 2.50  |
| 2       | pear   | 3.00  |
| 3       | banana | 1.00  |
| 4       | Grape  | 0.75  |
| 6       | plum   | 1.25  |

1. Left NavBar Navigator
2. Click fruit Table
3. Notice Main Window Pane
4. Edit select \* from fruit;
5. Add Comment #T3 display... newline
6. Repeat for Inventory

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#T4 & #T5) Describe tableName;

Run SQL query/queries on table DB0jstudent0.fruit: describe fruit

Columns

| Field   | Type                 | Null | Key | Default | Extra          |
|---------|----------------------|------|-----|---------|----------------|
| fruitID | smallint(6) unsigned | NO   | PRI | NULL    | auto_increment |
| name    | varchar(8)           | YES  |     | NULL    |                |
| price   | double(5,2)          | YES  |     | NULL    |                |

- Describe table name;
- Also Click Tab Structure
- Add comments

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## Keypoint Summary Quiz

- Can you save local version of tutorial.sql?
- PHPMYAdmin has become the defacto standard for MySQL/Database Web-Based Interface (T or F)?
- Unravel the location of key information (phpMyAdmin, database scripts, submit) don't let the Web Guide You (T or F)?
- CIM Password is student \_\_\_\_\_ ?

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# submit

<https://cim.saddleback.edu/submit>

**Ctrl^C Copy .... Ctrl^V Paste**

**Best Practices**

**Always Comment Code**

**Read Error Message Accordion**

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## Submitting Assignments

- We do all initial work in PHPMYAdmin (PMA)
- Two Options for Submitting
  1. Cut/Paste between PMA and Submit
  2. After Videos and Executing all Queries in PMA Copy Viewgraphs Comments into Submit Manually type each Query Don't use submit for debugging/learning its only for submitting.
- Will Demonstrate both but cut/paste can be tricky.

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## Submit Grading Table

- List Current Grade, Date of Last Submission;
- Due Date (is Usually Monday at 11 PM)
  - Quizzes Generally Expire 2 Days Later 11:55PM
  - 25% Penalty up to 7 Days Late
  - 50% Penalty After That
  - Don't Resubmit Correct Assignment after Due Date
- Class Site Schedule has Last Day
  - Last Day is Last Day,
  - Don't Submit after Last Day of Class

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## submit 24/7 Auto Grader

- Creates the File tutorial.sql in your Home Folder
- This is not your Web Site (public\_html is a sub-folder)
- Queries Executed using a default user/database
- Make sure your Queries are Working
- Submit is for Submitting not Debugging
- May turn in Assignments Multiple Times (Due Dates Matter)
- Last Submitted Assignment is Grade Recorded
- Pay Attention to Input/Output Specifications
- Read Error Message Accordion;

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## Submit tutorial.sql – test First 5

- Submit Link: Canvas, Assignments, Premiere
  - <https://cim.saddleback.edu/submit>
- Goal submit tutorial.sql first 5 Queries
- Use Browser's 5 Tabs
  - Use PHPMyAdmin Console History copy (Control^C) queries then
  - Paste (Control^V) them into submit editing pane
- Ctrl^C Universal Copy
- Ctrl^V Universal Paste
- Can Wait to Fix Errors in next Video Set

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## Submit Page

The screenshot shows a web browser window with the URL `cim.saddleback.edu/~tdedonno/submit/index3.php?assignn`. The page displays a list of testing queries, each with a status of 'its A Okay'. Below the list, it says 'On tutorial you got 5 out of 10 - Display all Grades'. The bottom section of the page is a code editor for 'tutorial.sql' with a 'Welcome' message and a 'Status: Editing Mode' indicator. Callouts point to various elements: 'Assignment' points to the top of the query list; 'Click Accordion to Open' points to a dropdown arrow; 'Click for Grade Table' points to the 'Display all Grades' link; 'Edit w VI or set' points to the 'Modes: VI Disabled' dropdown; and 'Control^G Hot Key Grade' points to the 'Regrade tutorial.sql' button.

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# MySQL 2<sup>nd</sup> Tutorial

Create & Comment 2<sup>nd</sup> Five Queries  
Add Then Submit One at a time  
<https://cim.saddleback.edu/submit>

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## Outline MySQL 2<sup>nd</sup> Tutorial

- Use Browser Workspace Environment
  - Ctrl^C Copy and Ctrl^V Paste, Ctrl^A select all
  - Use PMA for Queries 6..10 & Submit One at a time
  - Copy and Paste from History can be tricky
- Comments for 2<sup>nd</sup> 5 tutorial.sql Queries
  - # T6 Display only fruit Names
  - # T7 Display Total Inventory Quantity for all Fruit
  - # T8 Display Fruit Name w fruitID=1
  - # T9 Display sum quantity All Fruit in inventory w fruitID 1
  - # T10 Display each inventory line for fruitID 1

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### #T6) Select name from fruit;

- Login phpMyAdmin
- Select DB SB0username
- Select Table fruit
- Start SQL Tab
- Select \* and (click name in columns)
- Go
- Add Comment
- Terminate query with ;
- Copy & Paste into submit

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## Write Query #T7 and #T8

7) #T7 Display Total Inventory Quantity for all Fruit  
select sum( quantity ) from inventory;

8) #T8 Display Fruit Name w fruitID=1  
select name from fruit where fruitID=1;

| Table: fruit |        |       | Table: inventory |          | Apple Only |
|--------------|--------|-------|------------------|----------|------------|
| fruitID      | Name   | Price | fruitID          | quantity |            |
| 1            | apple  | 2.50  | 1                | 100      | 100        |
| 2            | pear   | 3.00  | 3                | 500      |            |
| 3            | banana | 1.00  | 2                | 100      |            |
| 4            | Grpe   | 0.75  | 1                | 250      | 250        |
| 8            | plout  | 4.50  | 2                | 200      |            |
| 6            | plum   | 1.25  | Sum/totals       | 1150     | 350        |

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## Write Last 2 Queries and Save

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9) #T9 display Sum of all Fruit in inventory w fruitID 1  
 #T9 in English how many apples in inventory  
 select sum( quantity ) from inventory where fruitID=1;

10) #T10 display each line of inventory with fruitID 1  
 #desk check does its sum quantity equal T9?

select \* from inventory  
 Where fruitID = 1;

- Desk check look at inventory Table at left notice, that total quantity is 1150 (#T7) apple only 350 (#T9);

| Table: inventory |          | Apple Only |
|------------------|----------|------------|
| fruitID          | quantity |            |
| 1                | 100      | 100        |
| 3                | 500      |            |
| 2                | 100      |            |
| 1                | 250      | 250        |
| 2                | 200      |            |
| Sum/totals       | 1150     | 350        |

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Tutorial – 2<sup>nd</sup> 5 Queries

MySQL

## SQL/PMA New Skill Summary

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1. PHPMyAdmin Import Scripts
  - Select Database, Import Tab, Select File to Import button  
Use Premiere Drop Down Select File to Import
2. -- or hash character # are in line comment for SQL  
using dash dash comment to distinguish from assignment
3. show tables; --display tables in active DB
4. describe inventory; --display structure of table
5. select \* from fruit; --display fruit content
6. select \* from inventory where fruitID = 1;  
--display all inventory rows for fruitID = 1;
7. select sum( quantity ) from inventory where fruitID=1;  
--sum is an aggregate will up all Apples  
--display total quantity for fruit with fruitID=1;

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Tutorial – 2<sup>nd</sup> 5 Queries

MySQL